

e-ISSN: 2980-177X

JCEES

Volume: 3 Issue: 1 Year: 2025

**Journal of
Computer &
Electrical and
Electronics
Engineering
Sciences**

Journal of

Computer & Electrical and Electronics Engineering Sciences

EDITORIAL BOARD

EDITOR-IN-CHIEF

Asst. Prof. Fuat TRK

Department of Computer Engineering, Faculty of Architecture and Engineering, Kırıkkale University, Kırıkkale, Türkiye

ASSOCIATE EDITORS-IN-CHIEF

Asst. Prof. Hseyin AYDİLEK

Department of Electrical and Electronics Engineering, Faculty of Engineering and Architecture, Kırıkkale University, Kırıkkale, Türkiye

Dr. Mahmut KILIÇASLAN

Department of Computer Technologies, Vocational School of Nallıhan, Ankara University, Ankara, Türkiye

Assoc. Prof. Selim BUYRUKOĐLU

Department of Computer Engineering, Faculty of Engineering, Çankırı Karatekin University, Çankırı, Türkiye

EDITORIAL BOARD

Dr. Alper Nuri METİN

Department of Electronics and Communications, Vocational School of Kırıkkale, Kırıkkale University, Kırıkkale, Türkiye

Prof. Aydın ÇETİN

Department of Computer Engineering, Faculty of Technology, Gazi University, Ankara, Türkiye

Asst. Prof. Ayhan AKBAŞ

Department of Computer Engineering, Faculty of Engineering, Abdullah Gl University, Kayseri, Türkiye

Asst. Prof. Ebru AYDOĐAN DUMAN

Department of Computer Information Systems Engineering, Faculty of Bucak Technology, Burdur Mehmet Akif University, Burdur, Türkiye

Asst. Prof. Elvan DUMAN

Department of Software Engineering, Faculty of Bucak Technology, Burdur Mehmet Akif University, Burdur, Türkiye

Asst. Prof. Enes AYAN

Department of Electrical and Electronics Engineering, Faculty of Engineering and Architecture, Kırıkkale University, Kırıkkale, Türkiye

Assoc. Prof. Erinç KARATAŞ

Department of Computer Technologies, Vocational School of Elmadağ, Ankara University, Ankara, Türkiye

Asst. Prof. Faruk ULAMIŞ

Department of Electronics and Automation, Vocational School of Hacılar Hseyin Aytemiz, Kırıkkale University, Kırıkkale, Türkiye

Assoc. Prof. Fatih KORKMAZ

Department of Electrical and Electronics Engineering, Faculty of Engineering, Çankırı Karatekin University, Çankırı, Türkiye

Assoc. Prof. Hseyin POLAT

Department of Computer Engineering, Faculty of Technology, Gazi University, Ankara, Türkiye

Assoc. Prof. İbrahim Alper DOĐRU

Department of Computer Engineering, Faculty of Technology, Gazi University, Ankara, Türkiye

Asst. Prof. İsmail ATACAK

Department of Computer Engineering, Faculty of Technology, Gazi University, Ankara, Türkiye

Journal of

Computer & Electrical and Electronics Engineering Sciences

EDITORIAL BOARD

Prof. İsmail Rakıp KARAS

Department of Computer Engineering, Faculty of Engineering, Karabük University, Karabük, Türkiye

Assoc. Prof. Levent GÖKREM

Department of Electrical and Electronics Engineering, Faculty of Engineering and Architecture, Tokat Gaziosmanpaşa University, Tokat, Türkiye

Asst. Prof. Mehmet GÜÇYETMEZ

Department of Electrical and Electronics Engineering, Faculty of Engineering and Natural Sciences, Sivas University of Science and Technology, Sivas, Türkiye

Assoc. Prof. Muhammet Tahir GÜNEŞER

Department of Electrical and Electronics Engineering, Faculty of Engineering, Karabük University, Karabük, Türkiye

Assoc. Prof. Murat LÜY

Department of Electrical and Electronics Engineering, Faculty of Engineering and Architecture, Kırıkkale University, Kırıkkale, Türkiye

Asst. Prof. Mürsel Ozan İNCETAŞ

Department of Computer Technologies, Vocational School of Alanya Ticaret ve Sanayi Odası, Alanya Alaaddin Keykubat University, Antalya, Türkiye

Asst. Prof. Mustafa TEKE

Department of Electrical and Electronics Engineering, Faculty of Engineering, Çankırı Karatekin University, Çankırı, Türkiye

Asst. Prof. Mustafa KARHAN

Department of Computer Engineering, Faculty of Engineering, Çankırı Karatekin University, Çankırı, Türkiye

Asst. Prof. Mustafa Yasin ERTEN

Department of Electrical and Electronics Engineering, Kırıkkale University, Kırıkkale, Türkiye

Prof. Necaattin BARIŞÇI

Department of Computer Engineering, Faculty of Technology, Gazi University, Ankara, Türkiye

Prof. Necmi Serkan TEZEL

Department of Electrical and Electronics Engineering, Faculty of Engineering, Karabük University, Karabük, Türkiye

Assoc. Prof. Ramazan Kürşat ÇEÇEN

Department of Aircraft Technology, Vocational School of Eskişehir, Eskişehir Osmangazi University, Eskişehir, Türkiye

Asst. Prof. Rukiye KARAKIŞ

Department of Software Engineering, Faculty of Technology, Cumhuriyet University, Sivas, Türkiye

Asst. Prof. Saadin OYUCU

Department of Computer Engineering, Faculty of Engineering, Adıyaman University, Adıyaman, Türkiye

Dr. Salih DEMİR

Department of Computer Engineering, Faculty of Open and Distance Education, Ankara University, Ankara, Türkiye

Asst. Prof. Sevilay VURAL

Department of Internal Medicine Sciences, School of Medicine, Yozgat Bozok University, Yozgat, Türkiye

Assoc. Prof. Sinan TOKLU

Department of Computer Engineering, Faculty of Technology, Gazi University, Ankara, Türkiye

Dr. Ufuk TANYERİ

Department of Computer Technologies, Vocational School of Nallıhan, Ankara University, Ankara, Türkiye

Dr. Yunus KÖKVER

Department of Computer Technologies, Elmadağ Vocational School, Ankara University, Ankara, Türkiye

Asst. Prof. Zafer CİVELEK

Department of Electrical and Electronics Engineering, Faculty of Engineering, Çankırı Karatekin University, Çankırı, Türkiye

Journal of

Computer & Electrical and Electronics Engineering Sciences

EDITORIAL BOARD

ENGLISH LANGUAGE EDITOR

Assoc. Prof. Esra Güzel TANOĞLU

Department of Molecular Biology and Genetics, Hamidiye Health Sciences Institute, University of Health Sciences, İstanbul, Türkiye

STATISTICS EDITOR

Assoc. Prof. Turgut KÜLTÜR

Department of Physical Therapy and Rehabilitation, Faculty of Medicine, Kırıkkale University, Kırıkkale, Türkiye

LAYOUT EDITOR

Şerife KUTLU

Engineer, MediHealth Academy Publishing, Ankara, Türkiye

Journal of

Computer & Electrical and Electronics Engineering Sciences

Dear Colleagues,

Academic journals play a vital role in the advancement of science by serving as platforms where researchers share their findings with the global scientific community. In this context, sustainability, consistency, and quality are fundamental pillars of successful academic publishing.

It is with great pride and pleasure that I present to you the fifth issue of our journal, Journal of Computer & Electrical and Electronics Engineering Sciences. Since the publication of our inaugural issue, our journal has continued its journey with a strong sense of responsibility towards academic and ethical publishing. With each new issue, we have reinforced our commitment to supporting original, high-quality research in the fields of Computer Engineering and Electrical-Electronics Engineering.

Our journal maintains its adherence to double-blind peer review processes and places utmost importance on ethical publishing principles, including the protection of personal data and academic integrity. As we continue to publish two issues per year, we remain focused on enhancing the scientific value and visibility of our publication.

The achievements we have reached so far would not have been possible without the dedicated efforts of our editorial board, reviewers, and authors. I would like to express my heartfelt gratitude to all who have contributed to our journal with their time, expertise, and passion for science.

As we move forward, we remain committed to our core values and to continuously improving the quality of our journal. We look forward to your continued support, valuable feedback, and insightful contributions that will help shape the future of our publication.

With sincere regards and best wishes,

Asst. Prof. Fuat TRK, PhD

Editor-in-Chief

Journal of

Computer & Electrical and Electronics Engineering Sciences

CONTENTS

Volume: 3 Issue: 1 Year: 2025

ORIGINAL ARTICLES

- Effect of different transistor technologies on physical design of arithmetic logic unit 1-7**
Özcan Korum, M., & Kaçar, F.
- Android malware detection with image-based features using transfer learning methods..... 8-13**
Sezer, O., Doğru, İ.A., Kılıç, K., & Atacak, İ.
- Hourly energy consumption forecasting by LSTM and ARIMA methods 14-20**
Ali, A.N., & Etem, T.
- Economic evaluation of solar-hydrogen hybrid system with installed power of 1 MW
and 5 MW in İskenderun Organized Industrial Region..... 21-28**
Arslan, A., & Doğan, B.
- Real-time laser weld point seam tracking system for robotic welding 29-34**
Koçak, N.F., & Saygı, A.